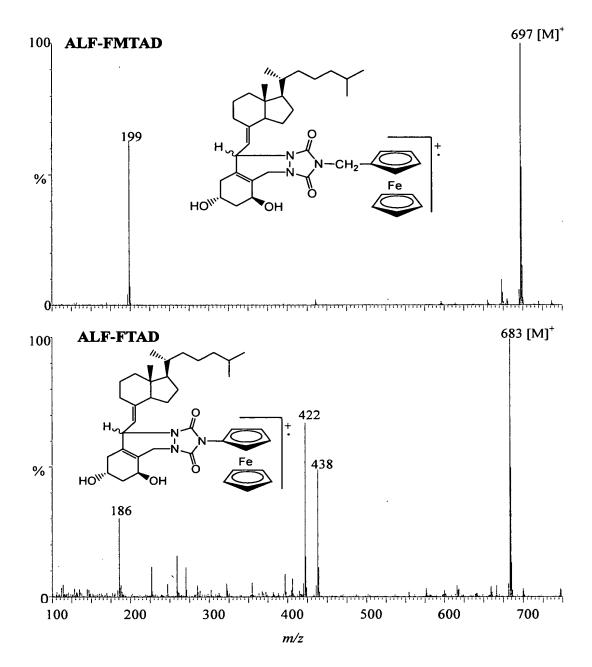
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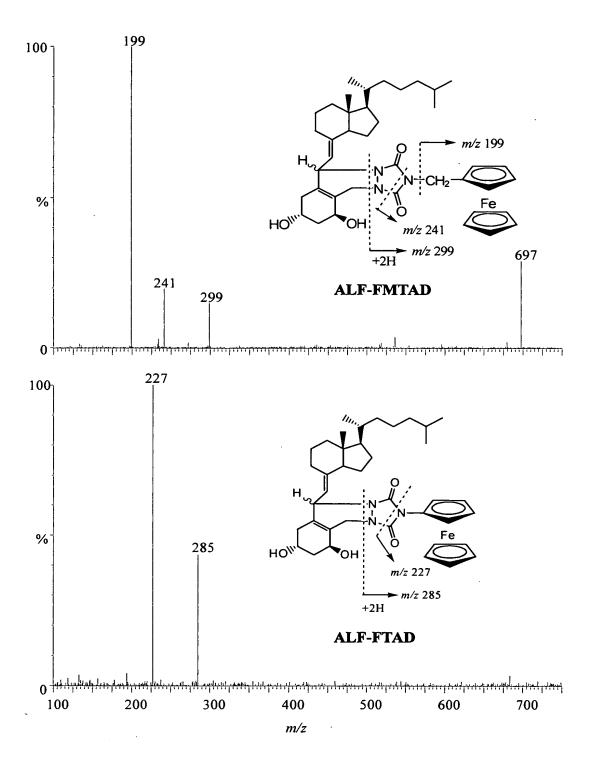
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FIG. 1



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FIG. 2

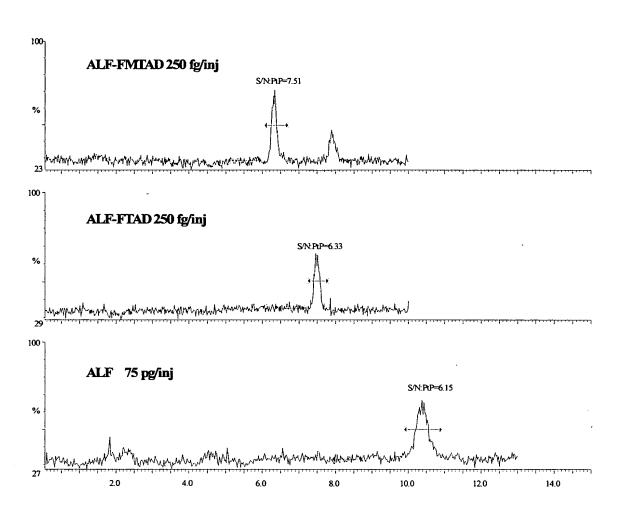


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FIG. 3



TIME (Min.)

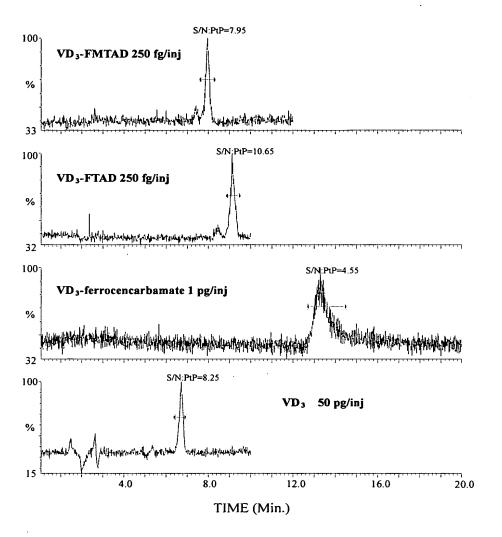
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FIG. 4



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FIG. 5

Plasma 100 µL

20 μL of 40 ng/mL I.S.

Add 400 µL of EtOH

Centrifuge at 10000 rpm for 5 mins

Supernatant

Evaporate to dryness in N₂ gas (50°C)

Dissolve in 0.5 mL of CHCl₃

Bond Elute SI, 3 cc/500 mg (conditioning: 4 mL of CHCl₃-MeOH = 30:1, 4 mL of CHCl₃)

Wash with 3 mL of CHCl₃

Wash with 2.2 mL of CHCl₃-MeOH = 40:1

Wash with 2 mL of CHCl₃-MeOH = 30:1

Evaporate to dryness in N2 gas (50°C)

Dissolve 40 mL of 1,4-dioxane

Derivatization

Add 10 µL of 1 mg/mL ferrocene derivative of the invention and maintain for 15 mins.

Add 200 μ L of MeOH

Evaporate to dryness in N2 gas (50°C)

Dissolve 100 µL of CH3CN

Add 150 µL of 10 mmols/L AcONH4

Oasis HLB, 1 cc/30 mg (conditioning: 1 mL of isopropanol, 1 mL of CH₃CN, 1 mL of AcONH₄)

Wash with 1 mL of 10 mmols/L AcONH₄

Wash with 3 mL of 10 mmols/L AcONH₄/CH₃CN (1:1)

Wash with 1 mL of n-hexane

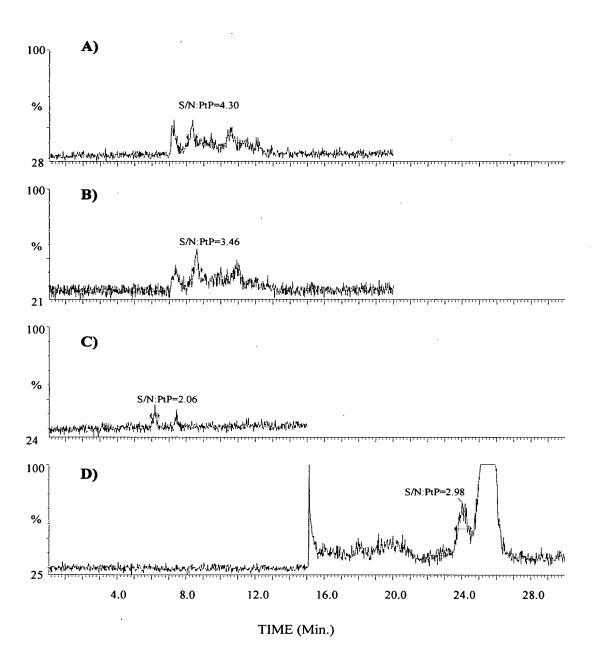
Extract with 3 mL of n-hexane/isopropanol (9:1)

Evaporate to dryness in N2 gas (50°C)

Dissolve 40 µL of mobile phase

Inject 10µL

FIG. 6



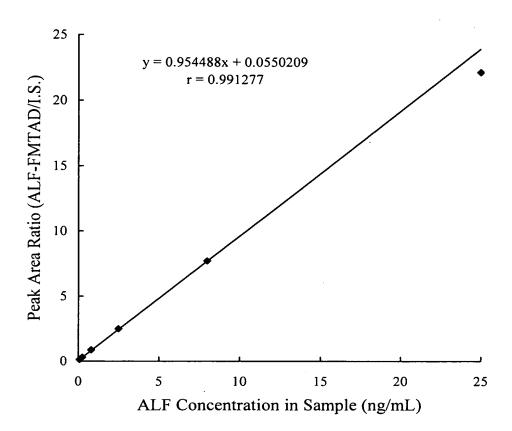
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FIG. 7



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FIG. 8

Plasma 100 µL

Dropwise add to 200 µL of CH3CN

Add 20 µL of 40 ng/mL I.S.

Centrifuge at 10000 rpm for 5 mins.

Supernatant

Add 400 μL of H_2O

Oasis HLB, 96-well plate 1 cc/10 mg (conditioning: 0.5 mL of AcOEt, 0.5 mL of MeOH, 0.5 mL of H₂O)

Wash with 0.5 mL of H₂O

Wash with 0.5 mL of 70% MeOH

Wash with 0.5 mL of n-hexane

Elute with 0.5 mL of AcOEt

Evaporate to dryness in N2 gas (50°C)

Dissolve 100 mL of 1,4-dioxan

Derivatization

Add 10 μL of 1 mg/mL FMTAD and allow to stand for 15 mins. at room temperature

Add 200 µL of MeOH

Evaporate to dryness in N2 gas (50°C)

Dissolve 100 μ L of mobile phase

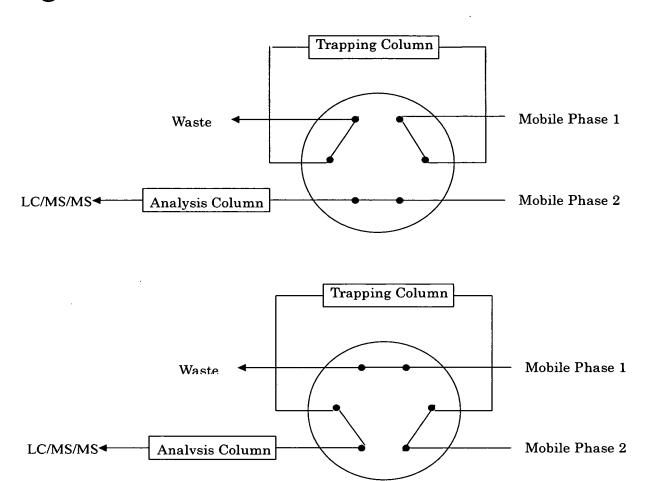
Inject, 30 µL

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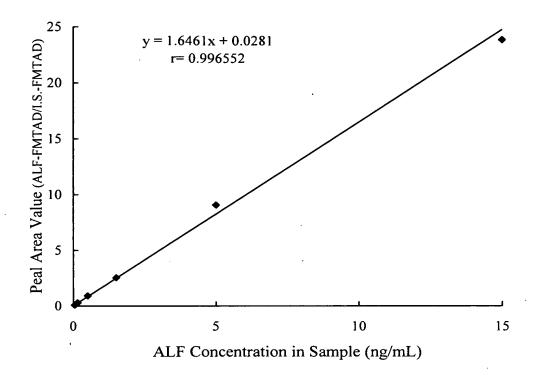
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Fig. 9



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Fig. 10

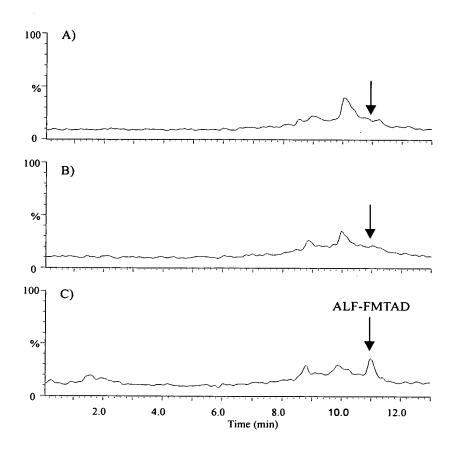


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FIG. 11



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FIG. 12

